

# NOD-001a — Identify the Node Role

[Go to NOD-001 — Define a Node](#)

## Statement

The [DIDO-TE](#) SHALL identify the role of each [Node](#) within the applicable [Test Environment](#).

## Derived From

- [NOD-001 — Define a Node](#)
- [\[DTE5\] DIDO-TE Requirements Register](#), source requirement identifier and obligation to be assigned
- [\[DTE6\] Structured Information Processing Reference Architecture \(SIP-RA\)](#)
- [\[DTE7\] Federated Data Interpretation Systems Reference Architecture \(FDIS-RA\)](#)

## Rationale

A Node role describes the responsibility assigned to a Node within a Test Environment. The role establishes why the Node participates in a test and distinguishes its responsibilities from those assigned to other Nodes.

Roles may include producing data, consuming data, transforming information, coordinating processing, providing a service, observing behaviour, injecting faults, emulating an external system, enforcing a policy, or collecting Evidence.

Explicit role identification prevents ambiguity when multiple Nodes use similar implementations or when one implementation performs different responsibilities in separate Test Environments. The identified role also provides a basis for defining interfaces, dependencies, permissions, lifecycle behaviour, observability, and expected Test Results.

## Applies To

- [Node](#)
- [Test Environment](#)
- [Test Definition](#)
- [Test Execution](#)
- [Evidence](#)

# Verification

Verification confirms that:

- Each Node has a uniquely identified role.
- The role describes the responsibility assigned to the Node within the Test Environment.
- The role identifies the purpose of the Node's participation in the applicable test.
- The role identifies the functions and behaviours expected from the Node.
- The role identifies the information, services, or resources the Node provides or consumes.
- The role distinguishes the Node's responsibilities from those assigned to other Nodes.
- The role identifies any responsibility for coordination, observation, fault injection, policy enforcement, emulation, or Evidence collection.
- The role remains independent of a particular Node instance unless the applicable Test Definition requires instance-specific behaviour.
- A Node assigned multiple roles has each role identified separately.
- The Node Definition identifies any constraints governing the combination of multiple roles.
- The role remains consistent with the Node's defined interfaces, dependencies, permissions, lifecycle behaviour, and observability requirements.
- The applicable Test Definition identifies the role assigned to each participating Node.
- A change to an assigned Node role produces a controlled change to the Node Definition or Test Definition.
- The DIDO-TE records the role assigned to each Node participating in a Test Execution.
- The DIDO-TE maintains [Traceability](#) among the Node, its role, the Node Definition, the Test Definition, the Test Environment, and the applicable Test Execution.
- An absent, ambiguous, conflicting, or untraceable mandatory Node role constitutes nonconformance with this requirement.

Verification includes:

- Inspection of each Node Definition
- Inspection of the roles assigned by the applicable Test Definition
- Comparison of each assigned role with the Node's interfaces, dependencies, permissions, and expected behaviour
- Confirmation that Nodes performing different responsibilities have distinguishable roles
- Confirmation that each Node assigned multiple roles has those roles separately identified
- A negative assessment involving an absent or ambiguous Node role
- A negative assessment involving a role inconsistent with the Node's defined behaviour
- Inspection of recorded role assignments and Traceability records

## Referenced By

**Plugin Backlinks: Nothing was found.**

## Related Architecture Sections

- Add links to the architecture sections governing Node definitions, Node responsibilities, Test Environment composition, Test Definition, and Traceability.

## Delivery Phase

Assign the applicable delivery phase.

## Requirement Status

Draft

## Statement Reference

Use the following syntax to reference this requirement's Statement section from another DokuWiki page:

```
{{section>dido:03-dido-te:99-annexes:annex-c-requirements:03-node-requirements:nod-001-define-a-node:nod-001a-identify-the-node-role#Statement&noheader&nofooter&noeditbtn}}
```

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